Examples of Regional Water Impacts

San Francisco Bay:

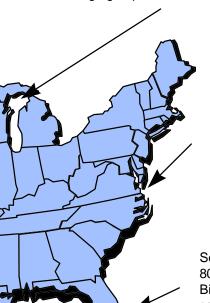
Sea level rise of 15 in. by 2100 Delta islands and marshes at increased risk of inundation Increased salinity in the bay and inland migration of saltwater

Colorado River Basin:

Runoff likely to decrease, exacerbating salinity problems Shift in seasonality of runoff, with increased potential for winter and spring flooding. Water deliveries may be dramatically affected

Great Lakes:

Ave. lake levels could fall by 1.7-8.3 feet Higher water temps could change thermal structure Increased dredging of ports could suspend toxic sediments



Chesapeake Bay:

Sea level likely to rise 2 feet by 2100. Most existing wetlands inundated. Currently building 20 miles of bulkheads per year in Maryland, preventing new wetlands from forming. Smith Island and Blackwater Refuge likely to be drowned

Florida:

Sea level rise of 20 in. by 2100. 800 sq mi of wetlands at risk Biscayne aquifer could become salty with 3 foot rise in sea level Loss of shrimp, crabs, oysters, and other species

Louisiana:

Sea level rise of over 4 feet by 2100 4,000 sq mi of wetlands at risk Increased vulnerability of coastal drainage and sewage systems Cumulative cost estimates of fortifying barrier islands range from \$2.6 to \$5.4 billion

agricultural pesticides may increase Less leaching of pesticides likely, lowering risks to groundwater quality, but may have less water available for aquifer recharge

Great Plains:

Pressure for more irrigation Surface runoff and erosion of

Source: EPA, 1989; EPA, 1995

California:

spring and summer runoff and streamflow

Decrease in water supply and reliability

Increased winter runoff, reduced

in Central Valley Basin.

